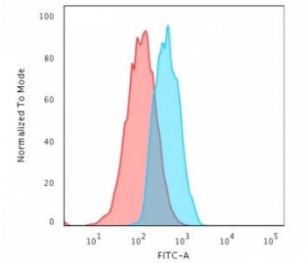
# E-cadherin Antibody for FACS / E-cadherin Flow Cytometry Antibody [clone CDH1/3256] (V8269)

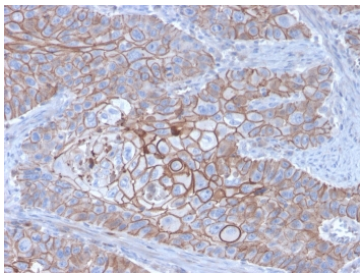
| Catalog No. | Formulation | Size |
|---|---|---|
| V8269-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8269-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V8269SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

## Bulk quote request

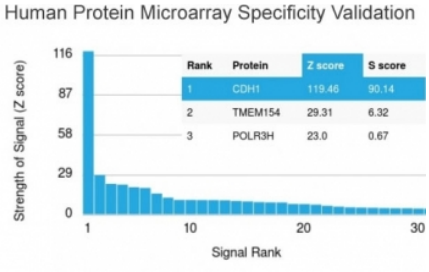
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | CDH1/3256 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P12830 |
| **Localization** | Cell surface |
| **Applications** | Flow cytometry: 1-2ug/million cells in 0.1ml<br>Immunohistochemistry (FFPE): 1-2ug/ml |
| **Limitations** | This E-cadherin Antibody for FACS / E-cadherin Flow Cytometry Antibody is available for research use only. |



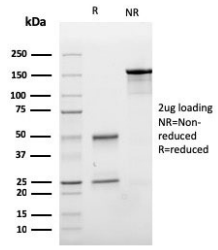

E-cadherin Antibody for FACS. Flow cytometry analysis of Cadherin 1 / CDH1 expression in human MCF7 cells using clone CDH1/3256 antibody, showing a clear right-shifted population (blue) compared to isotype control (red). The fluorescence shift demonstrates strong cell surface expression of E-cadherin and enables accurate gating of epithelial cell populations.



E-Cadherin Antibody Breast Carcinoma IHC. Immunohistochemistry staining of FFPE human breast carcinoma with E-Cadherin antibody (clone CDH1/3256). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using E-Cadherin antibody (clone CDH1/3256). These results demonstrate the foremost specificity of the CDH1/3256 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.




SDS-PAGE analysis of purified, BSA-free E-Cadherin antibody (clone CDH1/3256) as confirmation of integrity and purity.

## Description

E-cadherin (CDH1) is a calcium-dependent transmembrane glycoprotein that functions as a central mediator of epithelial cell-cell adhesion and is a defining marker of epithelial lineage. CDH1 is localized to the extracellular surface of epithelial cells, where it forms adherens junctions through homophilic interactions that maintain tissue integrity and cellular cohesion. E-cadherin Antibody for FACS enables direct detection of this cell surface protein in single-cell suspensions, providing a powerful approach for identifying and quantifying epithelial populations by flow cytometry. E-cadherin is also widely referred to as CDH1 antibody and is commonly used to distinguish epithelial cells from mesenchymal or stromal cell types.

E-cadherin Antibody for FACS / E-cadherin Flow Cytometry Antibody (clone CDH1/3256) is specifically designed for detection of native cell surface CDH1 in flow cytometry applications. The mouse monoclonal clone CDH1/3256 antibody recognizes extracellular epitopes of E-cadherin, enabling labeling of live or non-permeabilized cells while preserving membrane integrity. This allows accurate assessment of surface expression levels and supports downstream applications such as cell sorting and population enrichment. The clone CDH1/3256 antibody is well suited for workflows requiring precise identification of epithelial cells based on surface marker expression.

In flow cytometry assays, E-cadherin antibody provides a clear and quantifiable readout of epithelial cell populations. CDH1-positive cells exhibit a distinct fluorescence shift compared to negative controls, allowing reliable gating and separation of epithelial cells from non-epithelial populations within heterogeneous samples. This is particularly valuable in complex biological systems such as tumor samples, organoids, or mixed cell cultures, where epithelial and mesenchymal populations coexist. E-cadherin Antibody for FACS enables high-resolution analysis of these populations at the single-cell level.

Surface expression of E-cadherin is closely linked to epithelial differentiation state and cellular phenotype. Strong CDH1

expression is associated with stable epithelial characteristics, while reduced or absent expression is a hallmark of epithelial-to-mesenchymal transition and increased cellular motility. Flow cytometry detection using E-cadherin antibody allows quantitative monitoring of these changes, supporting studies of tumor progression, differentiation, and cellular plasticity.

This antibody is further supported by microarray-based specificity validation, providing confidence in target recognition and minimizing off-target binding. High specificity is particularly important in flow cytometry applications, where accurate detection of cell surface markers directly impacts population analysis and downstream experimental outcomes.

This E-cadherin antibody is ideally suited for flow cytometry workflows focused on epithelial cell identification, isolation, and characterization. Its ability to detect extracellular CDH1 expression with high specificity and sensitivity supports robust analysis of epithelial populations and dynamic changes in cell adhesion status.

This antibody is part of the CDH1 antibody collection, where multiple E-cadherin antibody formats and applications are available for studying epithelial adhesion and cancer progression.

## Application Notes

Optimal dilution of the E-cadherin Antibody for FACS / E-cadherin Flow Cytometry Antibody should be determined by the researcher.

## Immunogen

A recombinant human partial protein (amino acids 567-691) was used as the immunogen for this E-cadherin antibody.

## Storage

Store the E-cadherin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

## Alternate Names

CDH1 antibody, E-cadherin flow cytometry antibody, CDH1 FACS antibody, epithelial cell surface marker antibody, cadherin cell adhesion antibody


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